



1631

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Walter Callen et al. Art Unit : 1631
Serial No. : 10/034,621 Examiner : Richard Hutson, Ph.D.
Filed : December 21, 2001
Title : ENZYMES HAVING HIGH TEMPERATURE POLYMERASE ACTIVITY AND
METHODS OF USE THEREOF

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

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INFORMATION DISCLOSURE STATEMENT

Sir:

Enclosed for filing in the above-referenced patent application is a Form PTO-1449, being submitted prior to the first Office Action on the merits. Applicants respectfully request consideration of the remarks and references set forth herein.

The following documents are enclosed herewith:

- Form PTO-1449 newly filed
- Postcard
- copies of cited references

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

JULY 18, 2003
Date of Deposit

Susan Semmich
Signature

SUSAN SEMMICH
Typed or Printed Name of Person Signing Certificate



REMARKS

The references cited on attached form PTO-1449 are being called to the attention of the Examiner. Copies of the references are enclosed. It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

This submission is a supplemental Information Disclosure Statement (IDS). The prior IDS's and PTO FORMs 1449 were submitted September 26, 2002 and January 31, 2003.

Applicant believes that no fee is required for submission of this statement, since it is being submitted prior to the first Office Action. However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 06-1050. If necessary, please deduct any necessary additional fees from, or credit any overpayment to, the above-noted Deposit Account.

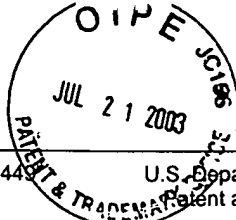
If the Examiner believes a telephone conference would expedite prosecution of this application, please telephone the undersigned at 858 678 5070.

Respectfully submitted,

Date: _____

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Reg. No. 38,440



Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 09010-027007	Application No. 10/034,621
		Applicant Walter Callen et al.	
		Filing Date December 21, 2001	Group Art Unit 1631

**Information Disclosure Statement
by Applicant**
(Use several sheets if necessary)

(37 CFR §1.98(b))

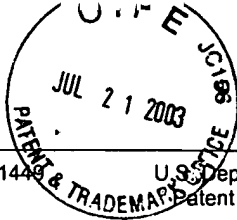
U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	6,492,511	Dec 10, 2002	Callen et al.			
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

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Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AL							
	AM							
	AN							
	AO							
	AP							

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AQ	Uemori, et al., "The hyperthermophilic archaeon Pyrodicticum occultum has two alpha-like DNA polymerases", <u>J. Bacteriology</u> , Vol. 177, No. 8, pp. 2164-2177, 1995
	AR	Campbell, et al., "General properties and applications of monoclonal antibodies", Elsevier Science Publishers, section 1.1. pp. 1-32, 1984
	AS	Bost, et al., "Antibodies Against a Peptide Sequence Within the HIV Envelope Protein Crossreacts with Human Interleukin-2", <u>Immunological Investigations</u> , Vol. 17, No. 6 & 7, pp. 577-586, 1988
	AT	Bendayan, "Possibilities of False Immunocytochemical Results Generated by the Use of Monoclonal Antibodies: The Example of the Anti-proinsulin Antibody", <u>The Journal of Histochemistry and Cytochemistry</u> , Vol. 43, No. 9, pp. 881-886, 1995

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	



Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 09010-027007	Application No. 10/034,621
		Applicant Walter Callen et al.	
		Filing Date December 21, 2001	Group Art Unit 1631

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AU	Colman, "Effects of amino acid sequence changes on antibody-antigen interactions" <u>Research in Immunology</u> , Vol. 145, No. 1, pp. 33-36
	AV	Lederman, et al., "A single Amino Acid Substitution in a Common African Allele of the CD4 Molecule Ablates Binding of the Monoclonal Antibody, OKT4", <u>Molecular Immunology</u> , Vol. 28, No. 11, pp. 1171-1181, 1991
	AW	Abaza, et al., "Effects of Amino Acid Substitutions Outside an Antigenic Site on Protein Binding to Monoclonal Antibodies of predetermined Specificity Obtained by Peptide Immunization: Demonstration with Region 94-100 (Antigenic Site 3) of Myoglobin", <u>Journal of Protein Chemistry</u> , Vol. 11, No. 5, pp. 433-444
	AX	Ngo, et al., "Computational Complexity, Protein Structure Prediction and the Levinthal Paradox", <u>The Protein Folding Problem</u> , Ch. 14, pp. 491-494

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